

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT REC'D 18 MAR 2004

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		on of Transmittal of International xamination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/mor		Priority date (day/month/year)					
PCT/US03/12445		• •						
International Patent Classification (IPC)	22 April 2003 (22.04.2003) or national classification and IPC	l	24 April 2002 (24.04.2002)					
IPC(7): H02P 3/22 and US Cl.: 318/380								
Applicant								
BOREALIS TECHNICAL LIMITED								
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This REPORT consists of	a total of sheets, including	this cover shee	t.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.								
3. This report contains indica	tions relating to the following i	tems:						
I Basis of the report II Priority								
 	III Non-establishment of report with regard to novelty, inventive step and industrial applicability							
IV Lack of unity of	invention							
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
VI Certain documen								
VII Certain defects in	VII Certain defects in the international application							
 								
Date of submission of the demand	Date of	of completion of	of this report					
18 November 2003 (18.11.2003)		09 February 2004 (09.02.2004)						
Name and mailing address of the IPEA/US		Authorized officer						
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Robert Nappi Peopley Harrod						
P.O. Box 1450 Alexandria, Virginia 22313-1450			•					
Facsimile No. (703)305-3230 Telephone No. (703) 308-0658 orm PCT/IPEA/409 (cover sheet)(July 1998)								



*INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Internations lication No.
PCT/US03/12445

I	Bas	Basis of the report						
1	. With	regard to the elements of the international application:*						
l	\boxtimes	the international application as originally filed.						
	\boxtimes	the description:						
		pages 1-11 as originally filed						
ł		pages NONE , filed with the demand						
		pages NONE , filed with the letter of						
	\triangle	the claims:						
		pages 12 and 13 , as originally filed , as amended (together with any statement) under Article 19						
		pages NONE , filed with the demand						
		pages NONE , filed with the letter of						
	\boxtimes	the drawings:						
		pages 1-5, as originally filed						
		pages NONE , filed with the demand						
	_	pages NONE , filed with the letter of						
	Ш	the sequence listing part of the description:						
		pages NONE , as originally filed						
		pages NONE , filed with the demand pages NONE , filed with the letter of						
2.	With	regard to the language, all the elements marked above were available or furnished to this Authority in the						
	langi	lage in which the international application was filed, unless otherwise indicated under this item.						
	Thes	e elements were available or furnished to this Authority in the following language which is:						
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).						
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of the translation furnished for the purposes of international preliminary examination(under Rules						
		55.2 and/or 55.3).						
3.	Witt	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the						
	inter	national preliminary examination was carried out on the basis of the sequence listing:						
	\square	contained in the international application in printed form.						
		filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.						
	Ш	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the						
	_	international application as filed has been furnished.						
	\sqcup	The statement that the information recorded in computer readable form is identical to the written sequence listing						
		has been furnished.						
4.	\boxtimes	The amendments have resulted in the cancellation of:						
		the description, pages NONE						
		the claims, Nos. NONE						
_		the drawings, sheets/fig NONE						
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**						
* 1	Replac	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in						
this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.								
•	11.5° 1°	processions states community such untertainents must be rejerred to under tiem 1 and annexed to this report.						
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Internation Solication No. PCT/US03/12445

V. Reasoned statement under Rule 66.2(a)(citations and explanations supporting su	(ii) with regar	rd to novelty,	inventive step or	industrial applicability;			
1. STATEMENT	CH Denteral	<u> </u>					
Novelty (N)	Claims	*		YES			
	Claims	NONE					
Inventive Step (IS)	Claims			YES			
	Claims	NONE	·	NO			
Industrial Applicability (IA)	Claims			YES			
	Claims	NONE		NO			
2. CITATIONS AND EXPLANATIONS Claims 1-4 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a regenerative braking circuit using a mesh array of resistors connected to an inverter in a manner similar to that of a motor connected to the inverter, such that, when it is desired to brake the motor and to dissipate the regenerative energy, the harmonic content of the inverter output can be adjusted, thus placing voltage differences across the resistor array and causing current to flow in the resistors.							
Claims 1-4 the criteria set out in PCT Article 33(4), be made or used in industry.	and thus meet	the industrial ap	pplicability because the	ne subject matter claimed can			
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